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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/611,547	07/02/2003	Jun Yamaguchi	116428	4984

25944 7590 04/04/2005

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P.O. BOX 19928  
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EXAMINER
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LEVI, DAMEON E

ART UNIT	PAPER NUMBER
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2841

DATE MAILED: 04/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/611,547

Applicant(s)

YAMAGUCHI ET AL.

Examiner

Dameon E. Levi

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 07/02/2003 New Application.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☒ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

**Claims 1-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Wakabayashi et al US Patent 6560115.**

**Regarding claim 1,** Wakabayashi et al discloses a module comprising:

a heat radiating member(for example, see element 60, Figs 1,2A, 2B, element 21, Fig 15) including a circuit arrangement surface having a circuit arrangement region  
a power circuit section(for example, see element 61, Figs 1,2A, 2B, element 6,7, Fig 15); including at least one electronic part and arranged in the circuit arrangement region;

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a wall member(for example, see element 54, Figs 1,2A, 2B, element 2, Fig 15);  
surrounding the circuit arrangement region;  
and a resin layer (for example, see element 102, Figs 1,2A, 2B) disposed in a space  
defined by the wall member and the heat radiating member, wherein:  
the electronic part has a plurality of leg portions(for example, see element 101, Figs  
1,2A, 2B); and the resin layer seals least the leg portions(for example, see column 10,  
lines 40-42).

**Regarding claim 2,** Wakabayashi et al discloses further  
comprising: a seal member surrounding the circuit arrangement region(for example, see  
elements 22, 23, Figs 15), wherein: the wall member defines a first groove to which the  
seal member is fitted(for example, see groove in element 2, 22, 23, Figs 15), and the  
seal member is interposed between the wall member and the heat radiating member.

**Regarding claim 3,** Wakabayashi et al discloses wherein the power circuit section  
includes at least one bus bar; the wall member includes a hood; and  
an end portion of the bus bar is inserted into the hood(for example, see column 9, lines  
43-65).

**Regarding claim 4,** Wakabayashi et al discloses the wall member further includes a  
through hole communicating a side of the heat radiating member and a side  
of the hood; and a part of the bus bar passes through the through hole(for example, see  
elements 68,68C,54,80, Figs 10A-11B).

**Regarding claim 5,** Wakabayashi et al discloses wherein: the wall member further  
includes: a recess portion; and another through hole communicating the side of

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the heat radiating member and the recess portion(for example, see elements 66,66C,54,80, Figs 10A-11B).

**Regarding claim 6**, Wakabayashi et al discloses wherein: the bus bar has: a first portion extending in parallel with the circuit arrangement surface; and a second portion standing up from the circuit arrangement surface and inserted into the hood(for example, see elements 41,37,35 Fig 7).

**Regarding claim 7**, Wakabayashi et al discloses wherein: the wall member defines a second groove; the bus bar has: a first portion extending in parallel with the circuit arrangement surface; a second portion standing up from the circuit arrangement surface; and a third portion extending through the second groove(for example, see elements 42,39, Fig 7, elements 42, 79A, 79B, Fig 8).

**Regarding claim 8**, Wakabayashi et al discloses wherein the bus bar protrudes from at least one of side edges of the power circuit section in outward directions (for example, see elements 66,68, Fig 10A-11B).

**Regarding claim 9**, Wakabayashi et al discloses further comprising: an insulating layer disposed between the heat radiating member and the power circuit section(for example, see layer between elements 60 and 61, Fig 1)

**Regarding claim 10**, Wakabayashi et al discloses wherein the insulating layer is thermally connected with the heat radiating member and the power circuit section(for example, see layer between elements 60 and 61, Fig 1)

**Regarding claim 11**, Wakabayashi et al discloses further comprising: a lid attached to the wall member to cover the power circuit section(for example, see element 50, Fig 1).

**Regarding claim 12**, Wakabayashi et al discloses further comprising a bus bar constitution plate including a plurality of bus bars, wherein: the electronic part is electrically connected to the power circuit section and at least one of the bus bars (for example, see elements 51, 52, Fig 1).

**Regarding claims 13-20**, the methods discloses therein are deemed inherent in the assembly of the claimed apparatus since the elements used for facilitating the methods are taught and suggested in the prior art of record. The claims are thus subsequently rejected.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dameon E. Levi whose telephone number is (571) 272-2105. The examiner can normally be reached on Mon.-Fri. (9:00 - 5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (571) 272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

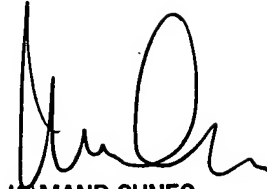
Dameon E Levi

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DEL

A handwritten signature in black ink, appearing to read 'Kamand Cuneo', with a large loop at the end.

KAMAND CUNEO  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2800